




Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0041832	TWM001-VU	3	1	Net 30	M304TR1.000W.049	304 Round Tube 1.00 X .049W. MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				20	12/4/2018	20		S135662	Stock	12/7/2018	\$ 2.95 / ft	0		\$58.96	TW Metals
		5			M6061T6T0.375W.058	6061-T6 Round Tube .375 X.058W. MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ- A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				120		120		S135663	Stock	12/7/2018	\$ 2.64 / ft	0		\$316.85	TW Metals
		8			M6061T6T0.625W.065	6061-T6 Round Tube .625 X.065W. MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ- A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft				48		48		S135664	Stock	12/7/2018	\$ 3.15 / ft	0		\$151.20	TW Metals
										Total:		188								\$527.00	

Plex 12/7/2018 8:55 AM Dart.Belanger.Natasha

		<p>PURCHASE ORDER PO041832</p>	
<p>Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200</p>		<p>Supplier: TWM001-VU TW Metals PO Box 933014 Atlanta, GA 31193-3014 USA Phone: 585 768 5600 Fax: 585 768 5601</p>	
<p>Ship To: 1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200</p>		<p>PO No: PO041832 PO Date: 11/23/18 Due Date: 12/4/18 Purchase Order Revision: Revision Date: Ship-To Contact: Tollis, AndrewPhone: plex.support@dartaero.com Via: Ground Pymt Terms: Net 30 Freight Terms: Special Comments:</p>	

Items													
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Unit	Extended Price
3		M304TR1.000W.049		304 Round Tube 1.00 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed -		12/4/18	20 ft	0 ft	20 ft	\$2.948/ft		\$58.96

20 ft x DEC 07 2018

20670 DEC 07 2018



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041832

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
5		M6061T6T0.375W.058		6061-T6 Round Tube .375 X .058W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed -		12/4/18	120 ft	0 ft	120 ft	\$2.6404/ft	\$316.85
<p>12061+ DEC 07 2018</p>												
8		M6061T6T0.625W.065		6061-T6 Round Tube .625 X .065W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed -		12/4/18	48 ft	0 ft	48 ft	\$3.1499/ft	\$151.20
<p>4861+ DEC 07 2018</p>												
											Grand Total:	\$527.00



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041832

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

A handwritten signature in black ink, appearing to be "CJ", is located in the upper right area of the order notes section.

Plex 12/7/18 8:47 AM dart.lavoie.chantal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041832**

Supplier: TWM001-VU
TW Metals
PO Box 933014
Atlanta, GA 31193-3014 USA
Phone: 585 768 5600
Fax: 585 768 5601

PO No: PO041832
PO Date: 11/23/18
Due Date: 12/4/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Phone:

E-MAILED
NOV 23 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		M304TR0.500W.049		304 Round Tube .500 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	-	12/4/18	120 ft	0 ft	120 ft	\$3.4385/ft	\$412.62
2		M304TR0.750W.049		304 Round Tube .750 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	-	12/4/18	120 ft	0 ft	120 ft	\$2.579/ft	\$309.48
3		M304TR1.000W.049		304 Round Tube 1.00 X .049W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	-	12/4/18	12 ft	0 ft	12 ft	\$2.948/ft	\$35.38
4		M4130NT0.750W.049		4130 Round Tube .750 X .049W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft	Firmed	-	12/4/18	48 ft	0 ft	48 ft	\$6.25/ft	\$300.00



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PURCHASE ORDER PO041832

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
5		M6061T6T0.375W.058		6061-T6 Round Tube .375 X.058W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	-	12/4/18	120 ft	0 ft	120 ft	\$2.6404/ft	\$316.85
6 ✓ AT		M6061T6T0.500W.049		6061-T6 Round Tube .500 X.049W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	-	12/4/18	24 ft / 24 ft	0 ft	24 ft	\$2.91/ft	\$69.84 M 13/12/02
7 ✓ AT		M6061T6T0.500W.058		6061-T6 Round Tube .500 X.058W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	-	12/4/18	160 ft / 168 ft	0 ft	160 ft	\$2.1492/ft	\$343.87 M 18/12/02
8		M6061T6T0.625W.065		6061-T6 Round Tube .625 X.065W : MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	-	12/4/18	48 ft	0 ft	48 ft	\$3.1499/ft	\$151.20



Dart Aerospace Ltd.
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Hawkesbury, ON
K6A 1K7
Canada

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PURCHASE ORDER **PO041832**

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
9 <i>AT</i>		M6061T6T0.625W.125		6061-T6 Round Tube 0.625 X.125W : MATERIAL: 6061- T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 40 82 OR AMS 4083 OR ASTM B210 OR ASTM B241 receive ft	Firmed	-	12/4/18	120 ft	0 ft	120 ft	\$5.15/ft	\$618.00
											<i>✓ 120ft AT 18/10/18</i>	

Grand Total: \$2,557.23

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/23/18 1:29 PM dart.lavoie.chantal

**METALS**

O'Neal High-Performance Metals Group

**Packing
Slip**

ORDER NO.: 80974896

FROM: CHIC

PAGE 1

CUST NUMBER: 1203820 NET WGT: 24.517 REQ.DATE: 12/04/18 CONFIRMED
 SOLD TO: SHIP TO:
 DART AEROSPACE LTD DART AEROSPACE LTD
 1270 ABERDEEN ST 1270 ABERDEEN ST
 HAWKESBURY ON HAWKESBURY ON
 CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 11/28/18
 TERMS: NET 30 DAYS VIA: COMMON CARRIER
 F.O.B.: SHIPPING POINT FREIGHT: PREPAID
 CUST ORD NO.: PO041832 RELEASE NO.:
 RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
 0001 37056 SMLS CD 304/L A269 1 OD X .049 WA 20' CL

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	12.000 FT	20.000 FT	20.000 FT	9.953	1

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
 PO:49385138 HT:N180118AS01 PC: 1 CUSTOMER QTY: UOM
 MLT:CHINA MFG:CHINA SLB/CL:-

0002 41952 D6061-T6 3/8 OD X .058 WA 12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	120.000 FT	120.000 FT	120.000 FT	8.136	10

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
 PO:49391823 HT:F002767520002 PC: 10 CUSTOMER QTY: UOM
 MLT:UNITED STATES MFG:UNITED STATES SLB/CL:226573

0003 42558 D6061-T6 5/8 OD X .065 WA 12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	48.000 FT	48.000 FT	48.000 FT	6.428	4

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
 PO:49393156 HT:F002792550002 PC: 4 CUSTOMER QTY: UOM
 MLT:UNITED STATES MFG:UNITED STATES SLB/CL:226804

1

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
 PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
 REVIEW.
<http://www.twmetals.com/invoice-terms.html>



METALS

O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 80974896

FROM: CHIC

PAGE 2

CUST NUMBER: 1203820 NET WGT: 24.517 REQ.DATE: 12/04/18 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 11/28/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO041832 RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
BROKERS KUEHNE AND NAGEL LTD

-----		PACK INFO			-----		
AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT	
YRC	REDDICRATE	1.000	70.000		246.0000		
					CUBIC FT		
		1.000	70.000				

BY: CS
RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED _____

DATE FILLED _____

THANK YOU FOR THIS ORDER

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TW METALS

O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 80974896

FROM: CHIC

PAGE 3

CUST NUMBER: 1203820 NET WGT: 24.517 REQ.DATE: 12/04/18 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 11/28/18
TERMS: NET 30 DAYS 235 TUBEWAY
F.O.B.: SHIPPING POINT CAROL STREAM IL 60188
CUST ORD NO.: PO041832
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk

Date: 11/28/18

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

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ORDER NO.: 80974896

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PAGE 1

CUST NUMBER: 1203820 NET WGT: 24.517 REQ.DATE: 12/04/18 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKSBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 11/28/18
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO041832 RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
0001 37056 SMLS CD 304/L A269 1 OD X .049 WA 20' CL

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	12.000 FT	20.000 FT	20.000 FT	9.953	1

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **
ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
PO:49385138 HT:N180118AS01 PC: 1 CUSTOMER QTY: UOM
MLT:CHINA MFG:CHINA SLB/CL:-

0002 41952 D6061-T6 3/8 OD X .058 WA 12 FT ML
CLN# ORD QTY INVOICE QTY SHIPPED QTY WT PCS
120.000 FT 120.000 FT 120.000 FT 8.136 10

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **
ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49391823 HT:F002767520002 PC: 10 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:226573

0003 42558 D6061-T6 5/8 OD X .065 WA 12 FT ML
CLN# ORD QTY INVOICE QTY SHIPPED QTY WT PCS
48.000 FT 48.000 FT 48.000 FT 6.428 4

** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **
ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49393156 HT:F002792550002 PC: 4 CUSTOMER QTY: UOM
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:226804

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O'Neal High-Performance Metals Group



Packing Slip

ORDER NO.: 80974896

FROM: CHIC

PAGE 2

CUST NUMBER: 1203820 NET WGT: 24.517 REQ.DATE: 12/04/18 CONFIRMED
 SOLD TO: SHIP TO:
 DART AEROSPACE LTD DART AEROSPACE LTD
 1270 ABERDEEN ST 1270 ABERDEEN ST
 HAWKESBURY ON HAWKESBURY ON
 CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 11/28/18
 TERMS: NET 30 DAYS VIA: COMMON CARRIER
 F.O.B.: SHIPPING POINT FREIGHT: PREPAID
 CUST ORD NO.: PO041832 RELEASE NO.:
 RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
 BROKERS KUEHNE AND NAGEL LTD

AREA		TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
YRC	REDDICRATE	1.000	70.000			246.0000	
						CUBIC FT	
		1.000	70.000				

BY: CS
 RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED _____

DATE FILLED _____

THANK YOU FOR THIS ORDER

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**Packing
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ORDER NO.: 80974896

FROM: CHIC

PAGE 3

CUST NUMBER: 1203820	NET WGT: 24.517	REQ.DATE: 12/04/18	CONFIRMED
SOLD TO:	SHIP TO:		
DART AEROSPACE LTD	DART AEROSPACE LTD		
1270 ABERDEEN ST	1270 ABERDEEN ST		
HAWKESBURY ON	HAWKESBURY ON		
CANADA	CN K6A 1K7	ONTARIO CANADA	CN K6A 1K7

SALESPERSON:	DONNA SMALLEY	SHIP BY:	11/28/18
TERMS:	NET 30 DAYS	235 TUBEWAY	
F.O.B.:	SHIPPING POINT	CAROL STREAM	IL 60188
CUST ORD NO.:	PO041832		
VIA:	COMMON CARRIER		
FREIGHT:	PREPAID		
RELEASE NO.:			
RECEIVING PHONE:			

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

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Authorized Test Report Clerk  Date: 11/28/18

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<http://www.twmetals.com/invoice-terms.html>



235 TUBEWAY
CAROL STREAM IL 60188
Tel: 630-690-0110
FAX: 16306902105

Invoice#: 80974896
Cust. PO#: PO041832
Incoterms: SHIPPING POINT
Frt. Terms: PREPAID
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA CN K6A 1K7 C Contact: CHANTAL 16136321053	Invoice Date: 11/28/18
	Ship Date: 11/28/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKSBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM#/LINE#	DESCRIPTION	QUANTITY	UNIT	VALUE	SUBTOTAL
37056	SMLS CD 304/L A269 1 OD X .049 WA	20.000	FT	\$ 2.9500	\$ 59.00
1	STAINLESS STEEL TUBE ROUND	0	IN		
	PART NUMBER:	1.000	PC		
	ECCN: 2B999.g				
	SCHEDULE B:7304.11.0000				
	ALUM PIPE/TUBE - SEAMLESS				
	NET WGT: 9.953 LBS				
	COUNTRY OF MFG: CHINA				
41952	D6061-T6 3/8 OD X .058 WA	120.000	FT	\$ 2.6400	\$ 316.80
2	ALUMINUM TUBE ROUND	0	IN		
	PART NUMBER:	10.000	PC		
	ECCN: EAR99				
	SCHEDULE B:7608.20.0030				
<p align="center">EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00</p>					
<p>TW METALS, LLC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, LLC.</p> <p>THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.</p>					
Page 1					CONTINUE



235 TUBEWAY
 CAROL STREAM IL 60188
 Tel: 630-690-0110
 FAX: 16306902105

Invoice#: 80974896
 Cust. PO#: PO041832
 Incoterms: SHIPPING POINT
 Frt. Terms: PREPAID
 Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA CN K6A 1K7 C Contact: CHANTAL 16136321053	Invoice Date: 11/28/18
	Ship Date: 11/28/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	ALUM PIPE/TUBE - SEAMLESS			
	NET WGT: 8.136 LBS			
	COUNTRY OF MFG: UNITED STATES			
42558	D6061-T6 5/8 OD X .065 WA	48.000 FT	\$ 3.1500 FT	\$ 151.20
		0 IN		
3	ALUMINUM TUBE ROUND	4.000 PC		
	PART NUMBER:			
	ECCN: EAR99			
	SCHEDULE B: 7608.20.0030			
	ALUM PIPE/TUBE - SEAMLESS			
	NET WGT: 6.428 LBS			
	COUNTRY OF MFG: UNITED STATES			
	FREIGHT CHARGES			.00
	QUANTITY AND TYPE OF BOXES:			
	1 REDDICRATE			
EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00				
TW METALS, LLC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, LLC. THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.				CONTINUE
Page				2



235 TUBEWAY
CAROL STREAM IL 60188
Tel: 630-690-0110
FAX: 16306902105

Invoice#: 80974896
Cust. PO#: PO041832
Incoterms: SHIPPING POINT
Frt. Terms: PREPAID
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA CN K6A 1K7 C Contact: CHANTAL 16136321053	Invoice Date: 11/28/18
	Ship Date: 11/28/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	246.0000 X X			
	TOTAL WGT: 70.000 LBS			
	GROSS WGT: 70.000 LBS			
<div>Ch. [Signature]</div> <div>EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00</div> <div>TW METALS, LLC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, LLC. THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.</div> <div>Page 3</div>				
			Sales Tax Payable in US Dollars	.00 527.00



235 TUBEWAY
 CAROL STREAM IL 60188
 Tel: 630-690-0110
 FAX: 16306902105

Invoice#: 80974896
 Cust. PO#: P0041832
 Incoterms: SHIPPING POINT
 Frt. Terms: PREPAID
 Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA CN K6A 1K7 C Contact: CHANTAL 16136321053	Invoice Date: 11/28/18
	Ship Date: 11/28/18
	Payment Terms: NET 30 DAYS
Freight Forwarder/Intermediate Ship To:	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7

ITEM#/LINE#	DESCRIPTION	QUANTITY	UNIT	VALUE	SUBTOTAL
37056	SMLS CD 304/L A269 1 OD X .049 WA	20.000	FT	\$ 2.9500	\$ 59.00
1	STAINLESS STEEL TUBE ROUND	0	IN		
	1.000	PC			
	PART NUMBER:				
	ECCN: 2B999.g				
	SCHEDULE B:7304.11.0000				
	ALUM PIPE/TUBE - SEAMLESS				
	NET WGT: 9.953 LBS				
	COUNTRY OF MFG: CHINA				
41952	D6061-T6 3/8 OD X .058 WA	120.000	FT	\$ 2.6400	\$ 316.80
2	ALUMINUM TUBE ROUND	0	IN		
	10.000	PC			
	PART NUMBER:				
	ECCN: EAR99				
	SCHEDULE B:7608.20.0030				
EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00					
TW METALS, LLC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, LLC. THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.					
Page 1					CONTINUE



235 TUBEWAY
 CAROL STREAM IL 60188
 Tel: 630-690-0110
 FAX: 16306902105

Invoice#: 80974896
 Cust. PO#: PO041832
 Incoterms: SHIPPING POINT
 Frt. Terms: PREPAID
 Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA CN K6A 1K7 C Contact: CHANTAL 16136321053	Invoice Date: 11/28/18
	Ship Date: 11/28/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	ALUM PIPE/TUBE - SEAMLESS			
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42558	D6061-T6 5/8 OD X .065 WA	48.000 FT	\$ 3.1500 FT	\$ 151.20
		0 IN		
3	ALUMINUM TUBE ROUND	4.000 PC		
	PART NUMBER:			
	ECCN: EAR99			
	SCHEDULE B:7608.20.0030			
	ALUM PIPE/TUBE - SEAMLESS			
	NET WGT: 6.428 LBS			
	COUNTRY OF MFG: UNITED STATES			
	FREIGHT CHARGES			.00
	QUANTITY AND TYPE OF BOXES:			
	1 REDDICRATE			
EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00				
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Page				2



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CAROL STREAM IL 60188
Tel: 630-690-0110
FAX: 16306902105

Invoice#: 80974896
Cust. PO#: PO041832
Incoterms: SHIPPING POINT
Frt. Terms: PREPAID
Ship Via: COMMON CARRIER

COMMERCIAL INVOICE

Sold To: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA Contact: CHANTAL 16136321053	Invoice Date: 11/28/18
	Ship Date: 11/28/18
	Payment Terms: NET 30 DAYS
	Ship To/Final Destination: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA CN K6A 1K7
Freight Forwarder/Intermediate Ship To:	

ITEM# / LINE#	DESCRIPTION	QUANTITY	UNIT VALUE	SUBTOTAL
	246.0000 X X			
	TOTAL WGT: 70.000 LBS			
	GROSS WGT: 70.000 LBS			
<div>Ch. [Signature]</div> <div>11/28/18</div> <div>EXPORT LICENSE NUMBER: NLR EXPIRATION DATE: 00/00/00</div> <div>TW METALS, LLC CERTIFIES THAT THE COUNTRY OR COUNTRIES OF MANUFACTURE INDICATED ABOVE IS TRUE AND CORRECT AS CONTAINED IN THE RECORDS OF TW METALS, LLC. THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.</div> <div>Page 3</div>				
			Sales Tax Payable in US Dollars	.00 527.00

MATERIAL RECEIPT INSPECTION FORM

M304TR1.000W.049

MATERIAL: A213 TP304/L
DATE: DEC 07 2018

PO / BATCH NO.: P0041832/S135662

MATERIAL CERT REC'D: YES
QUANTITY RECEIVED: 20'
QUANTITY INSPECTED: 20'
QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.049
THICKNESS RECEIVED: 0.049
SHEET SIZE ORDERED: -
SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	ASTM A213
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	N180118AS01
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 68</u> DATE: <u>DEC 07 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MISCO

JIAXING MT STAINLESS STEEL CO.,LTD

MILL TEST CERTIFICATE

EN10204 3.1 CERTIFICATE
ISO 9001: 2015 TUV SUD CERT REGISTRATION No.: 01 100 095954
PED/97/23/CE EURO CERT CERTIFICATE NO:CN.CE.111051-02/14



Precisely Right.

CERTIFICATE NO.: 18MTC-0725138-15

SALES CONTRACT NO.: M 49385138

COMMODITY: STAINLESS STEEL SEAMLESS TUBE

SPECIFICATION: ASTM A269-15a, ASTM A213-17, ASME SA213-17

PURCHASER: KASUGAI CO., LTD.
ORDER: M 49385138
DATE OF REPORT: 2018-7-25

Steel Grade	Heat No.	Dimensions			Quantity		Process	Delivery Condition	Macroscopic Inspection	
		O.D. (INCH)	W.T. (INCH)	Length (FT)	FT	Piece			End Cut	Appearance
TP304/TP304L	N180118AS01	1	0.049	20	3720	186	Cold-Drawn	Pickled & 320 Grit polish	Passed	Passed

Chemical Composition (W.T. %)

Element	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	-	-	-
Requirements	≤0.035	≤1.00	≤2.00	≤0.045	≤0.030	18.0-20.0	8.0-11.0	-	-	-	-	-
Ladle Analysis	0.017	0.35	1.37	0.036	0.001	18.1	8.01	-	-	-	-	-

Mechanical Properties

Test Item	Y.S. (MPa) Rp0.2	T.S. (MPa) Rm	EL. (%) In2in	Reduction of Area Z (%)	Hardness s	Cold Bend Test	Flaring Test	Flattening Test	P.M.I. TEST
Requirements	≥205	≥515	≥35	-	≤80	-	-	e=0.09	-
Test Results	260	580	50	-	77	Passed	Passed	Passed	Passed

Non Destructive Tests

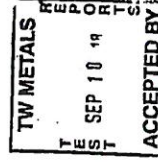
Remarks:

- ASTM A269-15a, ASTM A213-17, ASME SA213-17
- TUBES TESTED PER ASTM A1016
- SOLUTION HEAT TREATMENT: 1050°C X 1.5m/min
- NO WELD REPAIR WAS PERFORMED.
- PMI TESTING DONE ON EACH TUBE - SATISFACTORY
- IN COMPLIANCE WITH NACE MR0175/ISO 15156-2015
- FREE FROM MERCURY CONTAMINATION
- MATERIAL IS FREE FROM RADIOACTIVITY
- VISUAL CHECK IS SATISFACTORY
- COUNTRY OF ORIGIN: CHINA
- COUNTRY OF MELT: CHINA

Eddy Current Test

ASTM E 426

Passed



1. WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND THE TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT
2. THE CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.

Prepared by:

Approved by:

50

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING

SPECIFICATION:

ASTM A213 OR ASME SA213 OR ASTM A269

WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	PERMISSIBLE OD TOL (IN)	PERMISSIBLE WALL TOL
UP TO 1/2	+0.005	+15%
1/2 TO 1 1/2 EXCL	+0.005	+10%
1 1/2 TO 3 1/2 EXCL	+0.010	+10%
3 1/2 TO 5 1/2 EXCL	+0.015	+10%
5 1/2 TO 6 EXCL	+0.030	+10%

PART NUMBER:

M304TRD.DDD(W).TTT

WHERE "D.DDD" = OUTSIDE DIAMETER IN INCHES
AND "TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TRD.375W.065

RELEASED
R 08/10/20

B	REFORMAT DWG, ADD SPECS (ZN D8-1).	CP	08.10.20
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR			
APPROVED			
DE APPR			
DATE	08.10.20		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304TR			
TITLE 304/316 ROUND TUBING			
REV. B SHEET 1 OF 1			
SCALE NTS			
DATE 08.10.20			
COPYRIGHT © 2001 BY DART AEROSPACE LTD			

3/8"

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6TO.375W.058

PO / BATCH NO.: P0041832/S135663

DATE: DEC 07 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 120'
 QUANTITY INSPECTED: 120'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.058
 THICKNESS RECEIVED: 0.058
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM B210
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	F002767520002
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 68</u>	<u>38</u>	SIGNED OFF BY: _____	
DATE: <u>DEC 07 2018</u>	<u>9-89</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

KAISER ALUMINUM FABRICATED PRODUCTS

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49391823-1		CUSTOMER PART NUMBER: 41952		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 226573	LINE ITEM: 001	SHIP DATE: 08/01/2018	KAISER LOT NUMBER: F00276752	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 699.000 LB	QUANTITY: 863.000 PCS	B/L NUMBER: 230499	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00276752	0001	0001	48.4	42.7	19.0	N/A	N/A	N/A
F00276752	0002	0001	48.8	43.0	19.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D21581	.58	.27	.23	.05	.95	.09	.05	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.3750"; Wall: 0.0580"; Round @
AMS4082P AMS-WW-T-700/6C ASTM B210-12
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA. MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5 TRADE AGREEMENTS).

Plant Serial: 00029069

Kaiser Order Number: 226573

Line Item: 001

KAISER ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

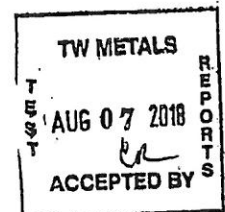
CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

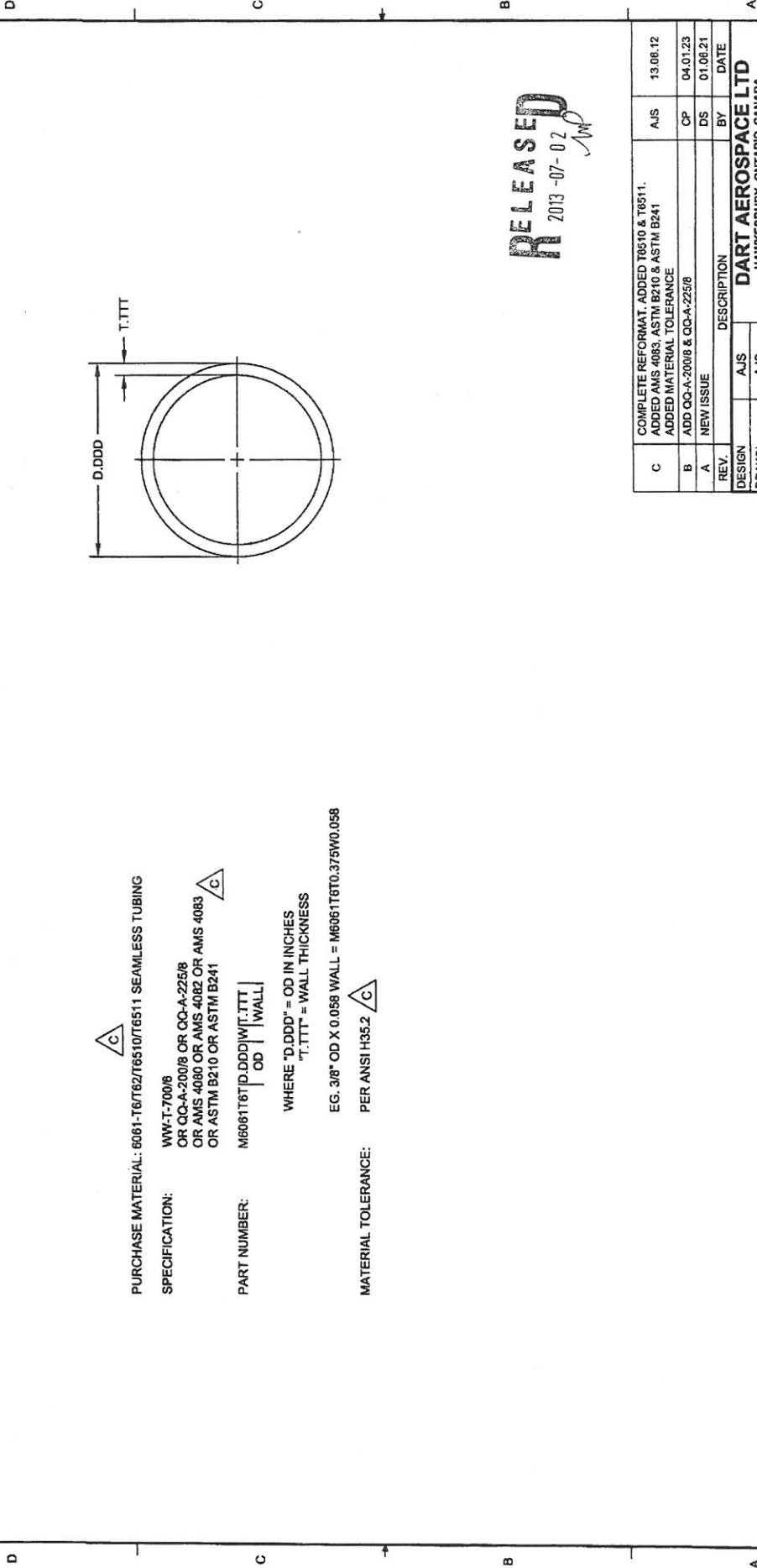
CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



8 7 6 5 4 3 2 1



RELEASED
2013-07-02

PURCHASE MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING

SPECIFICATION: WW-T-700/8
OR QQ-A-200/8 OR QQ-A-225/8
OR AMS 4080 OR AMS 4082 OR AMS 4083
OR ASTM B210 OR ASTM B241

PART NUMBER: M6061T6T6.DDD|W|T.TTT
OD | WALL

WHERE "D.DDD" = OD IN INCHES
"T.TTT" = WALL THICKNESS
EG. 3/8" OD X 0.058 WALL = M6061T6T6.375W0.058
MATERIAL TOLERANCE: PER ANSI H35.2

C	COMPLETE REFORMAT, ADDED T6510 & T6511. ADDED AMS 4083, ASTM B210 & ASTM B241 ADDED MATERIAL TOLERANCE	AJS	13.06.12
B	ADD QQ-A-200/8 & QQ-A-225/8	QP	04.01.23
A	NEW ISSUE	DS	01.06.21
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED			
MFG. APPR.	DRAWING NO. M6061T6T		REV. C SHEET 1 OF 1
APPROVED	TITLE 6061-T6 TUBING		SCALE NTS
DE APPR.			
DATE	13.06.12		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

REVISIONS
REV. C
SHEET 1 OF 1

SCALE
NTS

DATE
13.06.12

DESIGN
AJS

DRAWN
AJS

CHECKED

MFG. APPR.
DART AEROSPACE LTD

APPROVED

DE APPR.

DATE
13.06.12

DESCRIPTION
6061-T6 TUBING

DRAWING NO.
M6061T6T

TITLE
6061-T6 TUBING

SCALE
NTS

REV. C
SHEET 1 OF 1

DATE
13.06.12

DESIGN
AJS

DRAWN
AJS

CHECKED

MFG. APPR.
DART AEROSPACE LTD

APPROVED

DE APPR.

DATE
13.06.12

DESCRIPTION
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DRAWING NO.
M6061T6T

TITLE
6061-T6 TUBING

SCALE
NTS

REV. C
SHEET 1 OF 1

DATE
13.06.12

DESIGN
AJS

DRAWN
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CHECKED

MFG. APPR.
DART AEROSPACE LTD

APPROVED

DE APPR.

DATE
13.06.12

DESCRIPTION
6061-T6 TUBING

DRAWING NO.
M6061T6T

TITLE
6061-T6 TUBING

SCALE
NTS

REV. C
SHEET 1 OF 1

DATE
13.06.12

DESIGN
AJS

DRAWN
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CHECKED

MFG. APPR.
DART AEROSPACE LTD

APPROVED

DE APPR.

DATE
13.06.12

DESCRIPTION
6061-T6 TUBING

DRAWING NO.
M6061T6T

TITLE
6061-T6 TUBING

SCALE
NTS

REV. C
SHEET 1 OF 1

DATE
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5/8"

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6TO.625W.065
 DATE: DEC 07 2018

PO / BATCH NO.: P0041832/S135664

MATERIAL CERT REC'D: 48'
 QUANTITY RECEIVED: 48'
 QUANTITY INSPECTED: 48'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.065
 THICKNESS RECEIVED: 0.065
 SHEET SIZE ORDERED: -
 SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	ASTM B210
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	F00279255002
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 68</u>	SIGNED OFF BY: _____		
DATE: <u>DEC 07 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

KAISER ALUMINUM

FABRICATED PRODUCTS

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49393156-1		CUSTOMER PART NUMBER: 42558-144		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 226804	LINE ITEM: 001	SHIP DATE: 09/15/2018	KAISER LOT NUMBER: F00279255	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 27.000 LB	QUANTITY: 17.000 PCS	B/L NUMBER: 231049	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

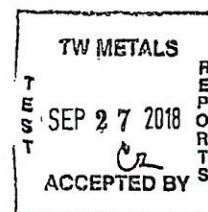
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00279255	0001	0001	48.2	41.3	20.0	N/A	N/A	N/A
F00279255	0002	0001	48.0	40.6	18.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D21582	.60	.27	.22	.05	.98	.10	.06	.03	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.6250"; Wall: 0.0650"; Round @
AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00029499
Kaiser Order Number: 226804
Line Item: 001

KAISER ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM.
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

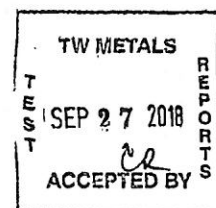
CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



C